

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/011104

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D261/02 C07D307/14 C07D307/38 C07D319/12 C07D213/38
C07D233/54 C07D249/02 C07D277/10 C07D327/04 C07D333/20
C07D307/81 C07D235/14 A61K31/341 A61K31/422 A61K31/426

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BIOSIS, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 318 988 A (SCHOHE-LOOP RUDOLF ET AL) 7 June 1994 (1994-06-07) cited in the application claim 1; examples 46,47,51	1,2,6,7
A	FR 2 181 559 A (AEC CHIMIE ORGANIQUE BIO) 7 December 1973 (1973-12-07) cited in the application claims 1,11,12	1,2,6,7
A	EP 0 534 246 A (BASF AG) 31 March 1993 (1993-03-31) cited in the application claims 1-3	1,2,6,7
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

31 January 2005

Date of mailing of the international search report

08/02/2005

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 International Application No
 PCT/EP2004/011104

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/12604 A (AVENTIS CROPSOURCE GMBH ;SCHNATTERER STEFAN (DE); MAHONY MARY JOS) 22 February 2001 (2001-02-22) cited in the application claim 1 -----	1
A	WO 94/26738 A (FUJISAWA PHARMACEUTICAL CO ;ITOH YOSHIKUNI (JP); OHNE KAZUHIKO (JP) 24 November 1994 (1994-11-24) cited in the application * claim 5, compounds of formula (III) * -----	1
A	US 4 145 439 A (KRAUS PETER ET AL) 20 March 1979 (1979-03-20) cited in the application column 1, line 26 - column 2, line 45; claim 1 -----	1
A	US 4 623 662 A (DE VRIES VERN G) 18 November 1986 (1986-11-18) cited in the application * RN 107349-67-7 * -----	1
A	US 6 303 819 B1 (PEVARELLO PAOLO ET AL) 16 October 2001 (2001-10-16) claims 1,8 -----	1,2,6,7
A	WO 97/05111 A (PHARMACIA & UPJOHN SPA ;PEVARELLO PAOLO (IT); AMICI RAFFAELLA (IT)) 13 February 1997 (1997-02-13) claims 1,6,8 -----	1,2,6,7
A	WO 97/05102 A (AMICI RAFFAELLA ;PEVARELLO PAOLO (IT); VARASI MARIO (IT); BONSIGNO) 13 February 1997 (1997-02-13) claims 1,7-10 -----	1,2,6,7
A	WO 99/35125 A (PEVARELLO PAOLO ;VARASI MARIO (IT); NEWRON PHARM SPA (IT); SALVATI) 15 July 1999 (1999-07-15) claims 1,2 -----	1,2,6,7
A	DD 298 507 A (ERBA CARLO SPA) 27 February 1992 (1992-02-27) claim 1 -----	1,2,6,7
A	BOWLBY M. R. ET AL.: "Epilepsy drug review: patent activity from 1999 to 2002" EXPERT OPINION ON THERAPEUTIC PATENTS, vol. 13, no. 7, 1 July 2003 (2003-07-01), pages 979-1001, XP002270128 * Chapter 3 * -----	1,2,6,7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/011104

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5318988	A	07-06-1994	DE	4135474 A1	29-04-1993
			AT	180777 T	15-06-1999
			AU	2626492 A	29-04-1993
			CA	2081300 A1	29-04-1993
			CZ	9203225 A3	12-05-1993
			DE	59209704 D1	08-07-1999
			EP	0540914 A1	12-05-1993
			ES	2132105 T3	16-08-1999
			FI	924847 A	29-04-1993
			HU	62875 A2	28-06-1993
			JP	3299321 B2	08-07-2002
			JP	5194473 A	03-08-1993
			MX	9205681 A1	01-04-1993
			NO	923975 A	29-04-1993
			US	5468882 A	21-11-1995
			US	5962513 A	05-10-1999
			ZA	9208291 A	06-05-1993
<hr/>					
FR 2181559	A	07-12-1973	FR	2181559 A1	07-12-1973
<hr/>					
EP 0534246	A	31-03-1993	DE	4132013 A1	01-04-1993
			CA	2078470 A1	27-03-1993
			EP	0534246 A2	31-03-1993
			JP	6025129 A	01-02-1994
			MX	9205375 A1	01-03-1993
<hr/>					
WO 0112604	A	22-02-2001	AU	6703300 A	13-03-2001
			BR	0013369 A	07-05-2002
			CN	1372549 T	02-10-2002
			WO	0112604 A1	22-02-2001
			EP	1204642 A1	15-05-2002
			JP	2003507368 T	25-02-2003
			MX	PA02001458 A	28-01-2003
<hr/>					
WO 9426738	A	24-11-1994	AU	6691194 A	12-12-1994
			HU	68843 A2	28-08-1995
			WO	9426738 A1	24-11-1994
			JP	8510233 T	29-10-1996
			ZA	9403439 A	20-01-1995
<hr/>					
US 4145439	A	20-03-1979	DE	2631948 A1	19-01-1978
			AT	357820 B	11-08-1980
			AT	504277 A	15-12-1979
			AU	524159 B2	02-09-1982
			AU	2700777 A	18-01-1979
			BE	856812 A1	16-01-1978
			BR	7704656 A	16-05-1978
			CA	1110257 A1	06-10-1981
			CH	634967 A5	15-03-1983
			CS	197296 B2	30-04-1980
			DD	134185 A5	14-02-1979
			DK	319777 A	16-01-1978
			EG	12867 A	31-12-1981
			FR	2358104 A1	10-02-1978
			GB	1582022 A	31-12-1980
			IL	52515 A	31-07-1981
			JP	53012423 A	03-02-1978
			NL	7707826 A	17-01-1978

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/011104

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4145439	A		PL 199604 A1	28-03-1978
			PT 66802 A ,B	01-08-1977
			SE 7708182 A	16-01-1978
			TR 19389 A	20-02-1979
			US 4220663 A	02-09-1980
			ZA 7704235 A	28-06-1978
US 4623662	A	18-11-1986	MX 9202872 A1	30-06-1992
			US 5003106 A	26-03-1991
US 6303819	B1	16-10-2001	BG 104569 A	28-02-2001
			CA 2316082 A1	15-07-1999
			EA 3097 B1	26-12-2002
			EP 1044186 A1	18-10-2000
			HR 20000508 A1	28-02-2001
			HU 0100184 A2	30-07-2001
			JP 2002500214 T	08-01-2002
			NO 20003398 A	02-08-2000
			NZ 505441 A	21-12-2001
			PL 341514 A1	23-04-2001
			WO 9935123 A1	15-07-1999
			ID 26622 A	25-01-2001
			TR 200001950 T2	21-11-2000
WO 9705111	A	13-02-1997	AT 199013 T	15-02-2001
			AU 6611696 A	26-02-1997
			BR 9609847 A	09-03-1999
			CA 2226886 A1	13-02-1997
			DE 69611728 D1	08-03-2001
			DE 69611728 T2	10-05-2001
			WO 9705111 A1	13-02-1997
			EP 0842152 A1	20-05-1998
			ES 2154830 T3	16-04-2001
			JP 11509848 T	31-08-1999
			US 5912242 A	15-06-1999
			ZA 9605997 A	31-01-1997
WO 9705102	A	13-02-1997	AT 202078 T	15-06-2001
			AU 711309 B2	07-10-1999
			AU 6418796 A	26-02-1997
			BR 9609849 A	16-03-1999
			CA 2226894 A1	13-02-1997
			CN 1192199 A ,C	02-09-1998
			DE 69613377 D1	19-07-2001
			DE 69613377 T2	20-09-2001
			DK 842143 T3	23-07-2001
			EA 1322 B1	26-02-2001
			WO 9705102 A1	13-02-1997
			EP 0842143 A1	20-05-1998
			ES 2159749 T3	16-10-2001
			GR 3036559 T3	31-12-2001
			HU 9900351 A2	28-06-1999
			IL 122705 A	28-01-2001
			JP 2000500732 T	25-01-2000
			NO 980290 A	22-01-1998
			NZ 313185 A	26-05-2000
			PL 324639 A1	08-06-1998
			PT 842143 T	30-10-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/011104

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9705102	A		SI 842143 T1	31-08-2001
			US 5945454 A	31-08-1999
			ZA 9605998 A	31-01-1997
<hr/>				
WO 9935125	A	15-07-1999	AT 238273 T	15-05-2003
			BR 9814548 A	10-10-2000
			CA 2316902 A1	15-07-1999
			DE 69813896 D1	28-05-2003
			DE 69813896 T2	06-11-2003
			DK 1045830 T3	04-08-2003
			EA 2763 B1	29-08-2002
			WO 9935125 A1	15-07-1999
			EP 1045830 A1	25-10-2000
			ES 2194392 T3	16-11-2003
			HK 1028020 A1	07-11-2003
			HU 0100870 A2	30-07-2001
			JP 2002508302 T	19-03-2002
			NO 20003399 A	02-08-2000
			NZ 505440 A	01-02-2002
			PT 1045830 T	29-08-2003
			US 6306903 B1	23-10-2001
<hr/>				
DD 298507	A	27-02-1992	AT 96775 T	15-11-1993
			AU 645752 B2	27-01-1994
			AU 5729990 A	18-12-1990
			CA 2033190 A1	26-11-1990
			CN 1047496 A ,C	05-12-1990
			CZ 9002520 A3	12-06-1996
			DD 298507 A5	27-02-1992
			DE 69004337 D1	09-12-1993
			DE 69004337 T2	24-02-1994
			DK 400495 T3	06-12-1993
			WO 9014334 A1	29-11-1990
			EP 0400495 A1	05-12-1990
			EP 0426816 A1	15-05-1991
			ES 2062174 T3	16-12-1994
			FI 114792 B1	31-12-2004
			HU 55348 A2	28-05-1991
			HU 9500703 A3	28-12-1995
			IE 63934 B1	28-06-1995
			IL 94466 A	24-01-1995
			JP 2771328 B2	02-07-1998
			JP 4500215 T	16-01-1992
			KR 179661 B1	15-05-1999
			NO 910270 A ,B,	23-01-1991
			NZ 233785 A	23-12-1992
			PT 94160 A ,B	08-01-1991
			RU 2097371 C1	27-11-1997
			US 5391577 A	21-02-1995
			US 5502079 A	26-03-1996
			US 5236957 A	17-08-1993
<hr/>				